### PATENT COOPERATION TREATY

# **PCT**

#### INTERNATIONAL SEARCH REPORT

(PCT Article 18 and Rules 43 and 44)

Applicant's or agent's file reference	FOR FURTHER see Notification of Transmittal of International Search Report (Form PCT/ISA/220) as well as, where applicable, item 5 below.		
PCA513-01DRK	ACTION  International filing date (day/month/year) (Earliest) Priority Date (day/month/year)		
International application No.	International filing date (day/month/year)	(Earliest) Priority Date (day/month/year)	
PCT/IB 02/00647	25/02/2002	30/03/2001	
Applicant		-	
MARNER LAMBERT COMPANY		***	
WARNER-LAMBERT COMPANY			
This International Search Report has been according to Article 18. A copy is being tra	•	nority and is transmitted to the applicant	
· ·	a copy of each prior art document cited in this	report.	
4 Paging AMA arrand	· · · · · · · · · · · · · · · · · · ·		
	nternational search was carried out on the bases otherwise indicated under this item.	sis of the international application in the	
the international search was Authority (Rule 23.1(b)).	as carried out on the basis of a translation of t	he international application furnished to this	
was carried out on the basis of the contained in the internatio		nternational application, the international search	
	this Authority in written form.		
	this Authority in computer readble form.		
	sequently furnished written sequence listing d s filed has been furnished.	oes not go beyond the disclosure in the	
the statement that the info furnished	rmation recorded in computer readable form is	s identical to the written sequence listing has been	
2. X Certain claims were four	nd unsearchable (See Box I).	· · · · · · · · · · · · · · · · · · ·	
3. Unity of invention is lack	king (see Box II).		
•			
4. With regard to the title,		•	
X the text is approved as sul	• • • • • • • • • • • • • • • • • • • •		
Life text has been establish	ned by this Authority to read as follows:		
5. With regard to the abstract,			
X the text is approved as sui			
the text has been establish within one month from the	ned, according to Rule 38.2(b), by this Authoric date of mailing of this international search rep	ty as it appears in Box III. The applicant may, ort, submit comments to this Authority.	
6. The figure of the <b>drawings</b> to be publi		2	
X as suggested by the applic	cant.	None of the figures.	
because the applicant faile	ed to suggest a figure.		
because this figure better	characterizes the invention.		

International Application No PCT/IB 02/00647

A. CLASSIFICATION OF SUBJECT MATTER IPC 7 A61K47/48 A61K31/7056 C07H19/04				
	o International Patent Classification (IPC) or to both national classification	ation and IPC		
	SEARCHED  commentation searched (classification system followed by classification)	on symbols)		
IPC 7	A61K	on symbols,		
Documentat	tion searched other than minimum documentation to the extent that s	uch documents are included in the fields se	earched	
Electronic d	ata base consulted during the international search (name of data bas	so and whom practical search farms used	<u> </u>	
1	ternal, BIOSIS, EMBASE, CHEM ABS Dat		,	
C. DOCUMI	ENTS CONSIDERED TO BE RELEVANT			
Category °	Citation of document, with indication, where appropriate, of the rele	evant passages	Relevant to claim No.	
T	LOVDAHL MICHAEL J ET AL: "Synthe characterization of pregabalin la conjugate degradation products." JOURNAL OF PHARMACEUTICAL AND BIO	ictose	1-7	
	ANALYSIS 1 JUNE, 2002, vol. 28, no. 5, 2002, pages 917-9	·		
	ISSN: 0731-7085 the whole document		·	
		-/		
X Furti	X Further documents are listed in the continuation of box C. Patent family members are listed in annex.		in annex.	
° Special categories of cited documents :  "T* later document published after the international filing date				
consid	*A* document defining the general state of the art which is not considered to be of particular relevance  *E* earlier document but published on or after the international  *C* document defining the general state of the art which is not cited to understand the principle or theory underlying the invention  *E* earlier document but published on or after the international  *Y* document of particular relevance: the claimed invention		eory underlying the	
filing o	iling date  cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone		be considered to curnent is taken alone	
citation	which is cited to establish the publication date of another citation or other special reason (as specified)  "O" document referring to an oral disclosure, use, exhibition or other means  "Y" document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such document is combined with one or more other such documents, such combination being obvious to a person skilled		ventive step when the re other such docu-	
*P* docume	ent published prior to the international filing date but	in the art.  *&' document member of the same patent to	•	
Date of the	actual completion of the international search	Date of mailing of the international sea	rch report	
2	4 July 2003	05/08/2003	05/08/2003	
Name and r	nailing address of the ISA  European Patent Office, P.B. 5818 Patentlaan 2	Authorized officer		
	NL – 2280 HV Rijswijk Tel. (+31-70) 340–2040, Tx. 31 651 epo nl, Fax: (+31-70) 340–3016	Dullaart, A.		

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International Application No PCT/IB 02/00647

	ation) DOCUMENTS CONSIDERED TO BE RELEVANT	Polovant to claim No.
Category °	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
(	LC.MAILLARD: "Action des acides aminés sur les sucres; formation des mélanoïdes par voie méthodique" COMPTES RENDUS DES SEANCES DE L'ACADEMIE DES SCIENCES, vol. 154, 1912, pages 66-68, XP0008015418 PARIS, FR ISSN: 0764-4469 cited in the application the whole document	1-7
Y	KUMAR V ET AL: "MAILLARD REACTION AND DRUG STABILITY" MAILLARD REACTIONS IN CHEMISTRY, FOOD AND HEALTH, 1994, pages 20-27, XP008015416 cited in the application the whole document	1-7
Y	WIRTH DAVID D ET AL: "Maillard reaction of lactose and fluoxetine hydrochloride, a secondary amine." JOURNAL OF PHARMACEUTICAL SCIENCES, vol. 87, no. 1, January 1998 (1998-01), pages 31-39, XP002248910 ISSN: 0022-3549 schemes tables figures	1-7
<b>Y</b>	COLACO C A L S ET AL: "PHARMACEUTICAL FORMULATION INSTABILITY AND THE MAILLARD REACTION" CHIMICA OGGI, TEKNOSCIENZE, MILANO, IT, vol. 14, July 1996 (1996-07), pages 32-37, XP009008300 ISSN: 0392-839X cited in the application the whole document	1-7
Υ	FIELD M J ET AL: "GABAPENTIN AND PREGABALIN, BUT NOT MORPHINE AND AMITRIPTYLINE, BLOCK BOTH STATIC AND DYNAMIC COMPONENTS OF MECHANICAL ALLODYNIA INDUCED BY STREPTOZOCIN IN THE RAT" PAIN, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 80, 1999, pages 391-398, XP000973130 ISSN: 0304-3959 abstract figures table 1 page 14, right-hand column, paragraph DISCUSSION - page 15, right-hand column	1-7

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International Application No
PCT/IB 02/00647

Category °	ation) DOCUMENTS CONSIDERED TO BE RELEVANT  Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
	TAYLOR C P ET AL: "POTENT AND STEREOSPECIFIC ANTICONVULSANT ACTIVITY OF 3-ISOBUTYL GABA RELATES TO IN VITRO BINDING AT A NOVEL SITE LABELED BY TRITIATED GABAPENTIN" EPILEPSY RESEARCH, ELSEVIER SCIENCE PUBLISHERS, AMSTERDAM, NL, vol. 14, no. 1, 1993, pages 11-15, XP000646439 ISSN: 0920-1211 abstract figures page 394, left-hand column, last paragraph - page 397, left-hand column	1-7
· .		
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i		

#### FURTHER INFORMATION CONTINUED FROM PCT/ISA/ 210

Continuation of Box I.2

Claims Nos.: 1, 4-6 in part

Present claims 1 and 4-6 relate to a compound, a composition containing this compound and a method in which this compounds is used, where the compound is defined (inter alia) by reference to the following parameters:

P1: a conjugate

P2: a prodrug thereof

The use of the first parameter is incorrect: the compounds described in the present application are not conjugates of pregabalin and lactose, but a reaction product of the two. The use of this parameter in the present context is considered to lead to a lack of clarity within the meaning of Article 84 EPC.

By virtue of the use of the second parameter, the compound is defined by reference to a desirable characteristic or property, namely the

possibility to form pregabalin in vivo.

The claims cover all compounds having this characteristic or property, whereas the application provides support within the meaning of Article 84 EPC and/or disclosure within the meaning of Article 83 EPC for none of such prodrugs. In the present case, the claims lack support, and the application lacks disclosure for the second parameter. Consequently, the search has been carried out for those parts of the claims which appear to be clear, supported and disclosed, namely those parts relating to the products of the reaction between pregabalin and lactose.

The applicant's attention is drawn to the fact that claims relating to inventions in respect of which no international search report has been established need not be the subject of an international preliminary examination (Rule 66.1(e) PCT). The applicant is advised that the EPO policy when acting as an International Preliminary Examining Authority is normally not to carry out a preliminary examination on matter which has not been searched. This is the case irrespective of whether or not the claims are amended following receipt of the search report or during any Chapter II procedure. if the application proceeds into the regional phase before the EPO, the applicant is reminded that a search may be carried out during examination before the EPO (see EPO Guideline C-VI, 8.5), should the problems which led to the Article 17(2) declaration be overcome.

International application No. PCT/IB 02/00647

Box I Observations where certain claims were found unsearchable (Continuation of item 1 of first sheet)
This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:
1. X Claims Nos.: because they relate to subject matter not required to be searched by this Authority, namely:
Although claims 5-7 are directed to a method of treatment of the human/animal body, a search has been carried out, based on the alleged effects of the compound/composition.
2. X Claims Nos.: 1, 4-6 in part because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
see FURTHER INFORMATION sheet PCT/ISA/210
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).
Box II Observations where unity of invention is lacking (Continuation of item 2 of first sheet)
This International Searching Authority found multiple inventions in this international application, as follows:
1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:
Remark on Protest  The additional search fees were accompanied by the applicant's protest.  No protest accompanied the payment of additional search fees.